### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization International Bureau



#### A COLOR BURRALO O ESCOTO DELLA COLOR TARRO A COLOR DELLA COLOR DELLA COLOR DELLA COLOR DELLA COLOR DELLA COLOR

#### (43) International Publication Date 21 May 2004 (21.05.2004)

**PCT** 

## (10) International Publication Number WO 2004/041506 A1

(51) International Patent Classification?: 45/56

B29C 45/33,

(21) International Application Number:

PCT/N1.2003/000764

(22) International Filing Date:

4 November 2003 (04.11.2003)

(25) Filing Language:

Dutch

(26) Publication Language:

English

(30) Priority Data:

1021838

5 November 2002 (05.11.2002) NI

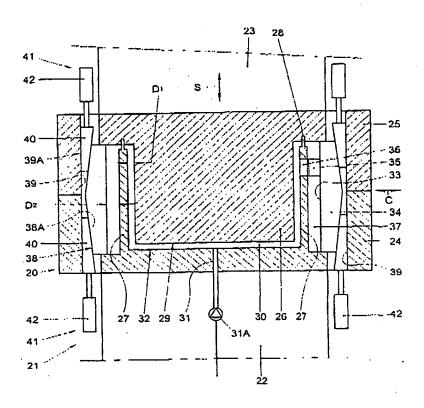
(71) Applicant (for all designated States except US): FOUNTAIN PATENTS B.V. I.O. (NL/NL); Rivium Quadrant 94, NL-2909 I.C Capelle ann den IJssel (NL).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): HOOGLAND, Hendricus, Antonius [NL/NL]; Gammedesstraat 40, NL-1562 ZM Krommenie (NL).
- (74) Agent: PRINS, A.W.; NIEUWE PARKLAAN 97, NL 2587 BN DEN HAAG (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU; CZ (utility model), CZ, DE (utility model); DE, DK (utility model), DK, DM, DZ, EC, LE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, I.C. LK, I.R. LS, I.T. LU, I.V. MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TI, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR MANUFACTURING HOLDERS, IN PARTICULAR CRATES



(57) Abstract: The invention relates to a mold for manufacturing holders such as crates, comprising at least two mold parts, moveable relative to each other in a first direction of movement, in which at least one mold cavity is included, the mold cavity being provided on at least side with a wall part moveable in a second direction of movement movemble between a first, retracted position and a second position moved forward, while the mold cavity, with said wall part in the second position, is in a desired product forming position and with said wall part in the first position has a volume greater than with said wall part in the second position, while the first and the second direction of movement mutually include an angle.